hu Sep 11 16:22:55 2003

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Blackshear, P.J. Lai, W.S., Thorn, J.M., Kennington, E.A., Staffa, N.G. Blackshear, P.J. Lai, W.S., Thorn, J.M., Kennington, E.A., Touchman Jr., Moore, D.T., Bouffard, G.G., Beckstrom-Sternberg, S.M., Touchman Jr., Moore, D.T., Bonaldo, M.F. and Soares, M.B.
The NIEHS Xenopus maternal EST project: interim analysis of the first 13,879 ESTs from unfertilized eggs
Gene 267 (1), 71-87 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AW637280 232 bp mRNA linear EST 26-APR-2001 bl56g11.w1 Blackshear/Soares normalized Xenopus egg library Xenopus laevis cDNA clone PBX0056G11 5', mRNA sequence.
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Tex: 919 541-4571
Fax: 919 541-4571
Email: blackObgenithhs.nih.gov
Email: blackObgenithhs.nih.gov
"Tlone is available through Research Genetics, Inc., 2130 Memorial
"Tlone is available through Research Genetics, Inc., 2130 Memorial
"Tlone is available through Research Genetics, Inc., 2130 Memorial
"Total Action of the Second of the 
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Office of Clinical Research and Laboratory of Signal Transduction
National Institute of Environmental Health Sciences
A2-05 NIEHS, 101 Alexander Drive, Research Triangle Park, NC 27709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /tissue_type="senescent fibroblast"
/tasue_type="senescent fibroblasts_NbHSF"
/clone_lib="Soares_senescent_fibroblasts_NbHSF"
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               This clone is available royalty-free through LLNL; contact the This Consortium (alroemage.llnl.gov) for further information. Insert Length: 1238 Std Error: 0.00 Seq primer: mob.REGA+ET High quality sequence stop: 64.
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100.0%; Pred. No. 1.9e+02;
iive 0; Mismatches 0;
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Xenopus laevis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Homo sapiens"
/mol_type="mRNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /db_xref-"GDB:1253939"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /db_xref-"taxon:9606"
/clone-"IMAGE:310525"
est@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AW637280.1 GI:7394388
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Best Local Similarity 100.
Matches 15; Conservative
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* ないこと ORGANISM

REFERENCE

JOURNAL MEDLINE

TITLE

PUBMED

COMMENT

EFINITION

ESULT 2 W637280

CCESSIQN ERSION

EYWORDS

OURCE

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Matches

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Homo saplens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Eukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo.

Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 268)

Rs. Adams,M.D., Kerlavage,A.R., Fleischmann,R.D., Fuldner,R.A., Bult

Rs. C.J., Leen,N.H., Earle-Hughes,J.C., Fluc,L.D., Fitzgerald

Cline,T.R., Cotton,M.D., Earle-Hughes,J.C., Fluc,Erizgerald

Cline,T.R., Cotton,M.D., Earle-Hughes,J.C., Fitzgerald

Cline,T.R., Cotton,M.D., Hedblom,E., Hinkle,P.S.Jr., Kelley,J.M.,

Kelley,J.C., Liu,L.-I., Marmaros,S.M., Merrick,J.M.,

Kelley,J.C., Liu,L.-I., Marmaros,S.M., Merrick,J.M.,

Moreno-Palanques,R.F., McDonald,L.A., Nguyen,D.T., Pelligrino,S.M.,

Moreno-Palanques,R.F., WcDonald,L.A., Nguyen,D.T., Pelligrino,S.M.,

Bednarik,D.P., Cao,L., Cepeda,M.A., Coleman,T.R., Collins,E.J.,

Bednarik,D.P., Cao,L., Cepeda,M.A., Fischer,C., Hastings,G.A., He,W.N.

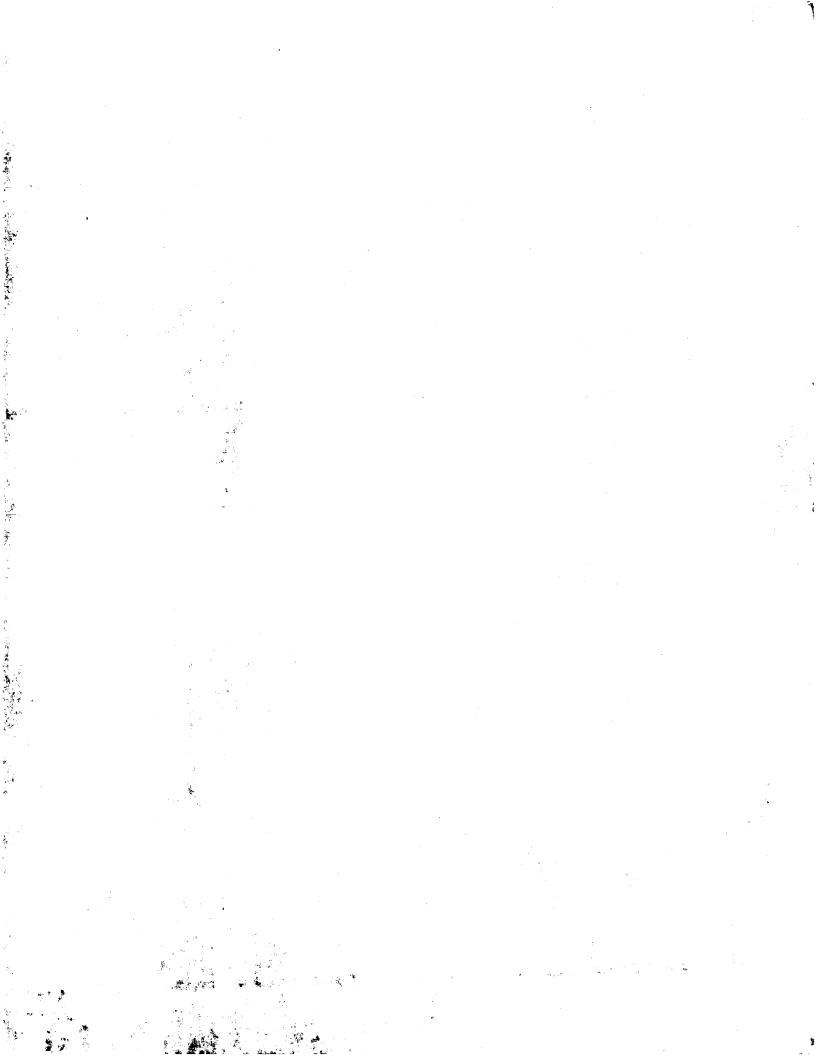
Dimke,D., Feng,D.-F., Ferrie,A., Fischer,C., Hastings,G.A., He,W.N.

Hu,J.S., Greene,J.M., Gruber,J., Hudson,P., Kim,A.K., Kozak,D.L.,

Kunsch,C., Hungjun,J., Li,H., Meissner,P.S., Olsen,H., Raymond,L.,

Kunsch,C., Hungjun,J., Li,H., Meissner,P.S., Olsen,H., Raymond,L.,

Wei,Y.F., Wing,J., Xu,C., Yu,G.L., Ruben,S.M., Dillion,P.J., Fannon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             approaches to facilitate gene discovery', Genome Research approaches to facilitate gene discovery', Genome Research 6:791-806, 1996. The first strands ophthesis used a Not1-dT18 primer; double stranded obNs were ligated to Not1-dT18 primer; double stranded to discotlonally clone into the Not1 and EcoRI-digested pf773-Pac vector. The library contained approximately 7.2 x 10.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            //note="Vector: pT713-Pac; Site_1: EcoRI; Site_2: NotI; /note="Vector: pRNA was prepared from unfertilized Xenopus PolyA-selected mRNA was prepared from unfertilized Xenopus area is eggs. The library was constructed in the vector partx3-Pac as described in Bonaldo, M.F., Lennon, G. and Soares, M.B. 'Normalization and subtraction: two
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UNA Sequencing and analyses performed by National Institutes of
Health Intramural Sequencing Center (NISC).
PCR PRimers
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268 bp mRNA linear EST 21-AF EST69742 T-cell lymphoma Homo sapiens cDNA 5' end similar to hereditary multiple exostoses gene 2 (EXT2), mRNA sequence.
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Pred. No. 2.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /tissue_type="unfertilized eg/cell_type="unfertilized egg" /dev_stage="unfertilized egg" /lab_host="DH10B"
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                                                                                                                                                                                                                                                                                                                                                                                                   /organism="Xenopus laevis"
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                                                                                                                                                                                                                                                                                                                                                                                                                                          /mol_type="mRNA"
/db_xref="taxon:8355"
/clone="PBX0056G11"
                                                                                                                                                                                FORWARD: TGTAAAACGACGGCCAGT
BACKWARD: CAGGAAACAGCTATGACC
Plate: 0056 row: G column:
Seq primer: T7 primer.
                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
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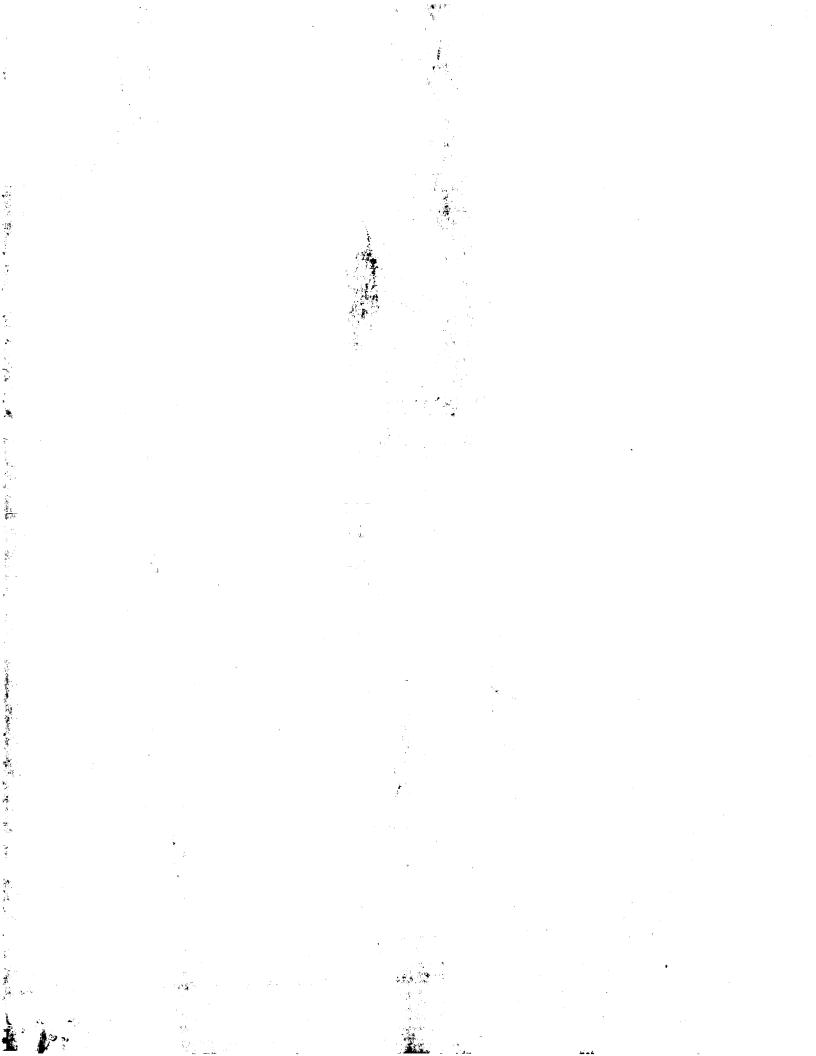
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Seq primer: -40RP from Gibco
High quality sequence stop: 2
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VERSION
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PUBMED
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Clone distribution: Senopus clones from this library are available through the I.M.A.G.E. Consortium/LLNL at: info@lmage.llnl.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Xenopodinae; Xenopus.
1 (bases 1 to 269)
Clifton,S., Johnson,S.L., Blumberg,B., Song,J., Hillier,L., Pape,D.
Amtin,J., White,T., Underwood,K., Theising,B., Bowers,Y., Person
,B., Gibbons,M., Harvey,N., Ritter,E., Jackson,Y., McCann,R.,
Waterston,R. and Wilson,R.
Washu Xenopus EST project, 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BE132222 29-JUN-2000 db43g01.yl Blackshear/Soares normalized Xenopus egg library Xenopus laevis cDNA clone IMAGE:3301296 5', mRNA sequence.
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                                       Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence Nature 377 (6547 Suppl), 3-174 (1995)
                                                                                                                                                                                                                                                                                              Email: arkerlav@tigr.org
For clone availability, additional sequence and expression
for clone availability, additional sequence and expression
for clone availability, please check the TigR Human Gene
Index (http://www.tigr.org/tdb/hgi/hgi.html)
Seq primer: M13 Reverse
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Eukaryota, Meťazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Amphibia, Batrachia; Anura, Mesobatrachia, Pipoidea, Pipidae,
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.M.R., Rosen, C.A., Haseltine, W.A., Fields, C., Fraser, C.M. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Sandy Clifton, Ph.D.
WashU Xenopus EST project, 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Fal: 314 286 1800
Fax: 314 286 1810
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       /mol_type="mana"
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xhoI"
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Pred. No. 2.2e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
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BE132222
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/note="Vector: pT7T3-Pac; Site_1: ECORI; Site_2: NotI; PolyA-selected mRNA was prepared from unfertilized Xenopus laevis eggs. The library was constructed in the vector pT7T3-Pac as described in Bonaldo, M.F., Lennon, G. and, Soares, M.B. 'Normalization and subtraction: two approaches to facilitate gene discovery', Genome Research 6:791-806, 1996. The first strand synthesis used a NotI-dT18 primer; double stranded cDNAs were ligated to EcoRI adapters, digested with NotI, and directionally cloned into the NotI and EcoRI-digested pT7T3-Pac vector. The library contained approximately 7.2 X 10.5 recombinants, with average insert sizes of 1-1.5 kb."
                                                                                                                                                                                                                                                                                                                               /lab_nost="DHIUB"
/clone_lib="Blackshear/Soares normalized"Xenopus egg_territy.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases I to 321)

1 bias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G. H., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H., Brunstein, A., deolivelar, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
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This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=CM3&t2=CM3.RT0006-
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Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
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Location/Qualifiers
                                                                                                                                                                                                                                                                                                                     /lab_host-"DH10B
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                                                                                                                                                                                               /sex="female"
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Fax: +55-11-2707001
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Description

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BF822715 B1008593 B1008593 B1008593 B1004274 BY400016 AA085493 B121876 AW886187 B1057614 B1078617 B108617	BE971148 BF875537 AL636508 B0308056 AV714029 B0020020 B1029020 B1029020 B102020 B102030 B181769 B181769 B1871769	ALIGNMENT 173 bp escent_fibro , mRNA seque	Eutheria; Primates; Craniat Eutheria; Primates; Catarri 1 to 173) "Lennon,G., Becker,M., Bon Bon Betrich, N., Dubque,T., is,M., Parsons,J., Prange,C. erg,K., Soares,M.B., Tan,F.,K., Wondoman,P., Warterston and analysis of 280,000 hus. 6 (9), 807-828 (1996) Wilson RK U University School of Medic St Park Park Parkway, Box 8501, 828 (1896)
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1228 W W W W W W W W W W W W W W W W W W		1 Soares_se GE:310525 5 GI:1312081 ens (human)	Eukaryota; Metazoa; Ch Mammalia; Eutheria; Pr 1 (bases 1 to 173) Hillier,L., Lennon,G., Chissoe,S., Dietrich,N., M., Hultman,M., Rucab, B., Morris,M., Parson Schellenberg K., Soare Underwood, K., Wohldman Generation and analysi Genome Res. 6 (9), 807 97044478 8889549 Contact: Wilson RK Washington University 4444 Forest Park Parky Tel: 314 286 1800
		091 6h07.rl : 091 091.1 G	Eukaryota; M Mammalla; Eu Millier,L., Chissoe,S., Mr. Hultman B., Morris, Schellenberg Underwood,K. Generation a Genome Res. 9704447 R889549 Contact: Wil Washington U
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Homo sapiens (human)	
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae	э; Ношо.
1 (bases 1 to 173)	
Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chi	lapelli,B.,
Chissoe, S., Dietrich, N., DuBuque, T., Favello, A., Gi	ish, W., Hawkin
,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N.,	Mardis, E., Mo
,B., Morris,M., Parsons,J., Prange,C., Rifkin,L., R	ohlfing, T.,
Schellenberg, K., Soares, M.B., Tan, F., Thierry-Meg, J	., Trevaskis,
Underwood, K., Wohldmann, P., Waterston, R., Wilson, R.	and Marra, M.
Generation and analysis of 280,000 human expressed	sequence tags
Genome Res. 6 (9), 807-828 (1996)	•
97044478	
Contact: Wilson RK	
Washington University School of Medicine	
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108	3108
Tel: 314 286 1800	
z 5:	2b86h07.rl Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:310525 5', mRNA sequence. Wal1091 Wal1091.1 GI:1312081 EST. Homo sapiens Homelais Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 173) Hillier,L., Lennon,G., Becker,M., Bonaldo,M.F., Chiapelli,B., Chissoe,S., Dietrich,N., Dubuque,T., Favello,A., Gish,W., Hawkin,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,M., Mardis,E., Mo, Schellenberg,K., Soares,M.B., Tan,F., Thierry-Meg,J., Trevaskis,Underwood,K., Wohldmann,P., Waterston,R., Wilson,R. and Marra,M. Generation and analysis of 280,000 human expressed sequence tags 97044478 888549 Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800

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AA360512.1 GI:2012902
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cdna@resgen.com
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                                                                                                                                                                                                                                                                                                       /tissue_type="senescent fibroblast"
/lab_host-"DH10B (ampicillin resistant)"
/clone_lib="Soares_senescent_fibroblasts_NDHSF"
/note="Vector: pT7T3D (Pharmacia) with a modified
polytimker V_TYPE: phagemid; Site_1: Not I; Site_2: Eco RI
: ist strand cDNA was primed with a Not I - oligo(dT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Aww3/280 232 bp mRNA linear EST 26-APR-2001 b156g11.w1 Blackshear/Soares normalized Xenopus egg library Xenopus Awg37280
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I (bases 1 to 23.2)

Blackshear, P.J., Lai, W.S., Thorn, J.M., Kennington, E.A., Staffa, N.G.
Jr., Moore, D.T., Bouffard, G.G., Beckstrom-Sternberg, S.M., Touchman
J.W., Bonaldo, M.F. and Soares, M.B.

THA NIEHS Xenopus maternal EST project: interim analysis of the
first 13.879 ESTs from unfertilized eggs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    double-stranded cDNA was size selected, ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT/T3 vector (Pharmacia). Library went through one round of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NC 27709,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       normalization to a Cot = 5. Library constructed by Bento Soares and M.Fatima Bonaldo."
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Amphibia, Batrachia, Anura, Mesobatrachia, Pipoidea, Pipidae,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Clone is available through Research Genetics, Inc., 2130 Memorial Parkway, Huntsville, AL 35901 phone 800-533-4363 ext.cdna, fax 256-536-9016 att:cdna, email
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 1238 Std Error: 0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact: Perry J. Blackshear

Office of Clinical Research and Laboratory of Signal Trans
National Institute of Environmental Health Sciences
A2-05 NIEHS, 101 Alexander Drive, Research Triangle Park,
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                                                                                                                                                                                                    /organism="Homo sapiens"
                                                                                                            Seg primer: mob.REGA+ET
High quality sequence stop: 64.
Location/Qualifiers
                                                                                                                                                                                                                    /mol_type="mRNA"
/db_xref="GDB:1253939"
                                                                                                                                                                                                                                                             /db_xref="taxon:9606"
/clone="IMAGE:310525"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: black009@niehs.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     48 g
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100.0%;
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Best Local Similarity 100.0
Matches 15; Conservative
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Fax: 919 541-4571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Xenopus laevis
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo.

I. (Dassa 1 to 288)

Adams, M.D., Kerlavage, A.R., Fleischmann, R.D., Fuldner, R.A., Bult

C.J., Lee, N.H., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White

C.J., Lee, N.H., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White

C.J., Lee, N.H., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White

C.J., Lee, N.H., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White

J.L.M., Fitzhugh, W.M., Fritchman, J.L., Geoghagen, N.S., Glodek, A.,

Gnehm, C.L., Handna, M.C., Hedblom, E., Hinhelp, B.J., Kelley, J.M.,

Kelley, J.C., Liu, L.-I., Marmaros, S.M., Merrick, J.M.,

Moreno-Palaques, R.F., McDonald, L.A., Nguyen, D.T., Pelligrino, S.M.,

Phillips, C.A., Ryder, S.E., Scott, J.L., Saudek, D.M., Shirley, R.,

Small, K.V., Sprigs, T.A., Utterback, T.R., Weidman, J.F., Li, Y.,

Bednarik, D., Roay, L., Cepeda, M.A., Coleman, T.A., Collins, E.J.,

Nu, J.S., Greene, J.M., Gruber, J., Hudson, P., Kim, A.K., Kozak, D.L.,

Kunsch, C., Hungjun, J., Li, H., Melssner, P.S., Olsen, H., Raymond, L.,

Wei, Y.F., Wing, J., Xu, C., Yu, G.L., Ruben, S.M., Dillion, P.J., Fannon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note="vector: py773-Pac; Site_1: EcoRI; Site_2: NotI; PolyA-selected mRNA was prepared from unfertilized Xenopus laevis eggs. The library was constructed in the vector py773-Pac as described in Bonaido, M.F., Lennon, G. and Soares, M.B. 'Normalization and subtraction: two approaches to facilitate gene discovery', Genome Research 6:791-806, 1996. The first strand synthesis used a NotI-dT18 primer; double stranded cDNAs were ligated to EcoRI adapters, digested with NotI, and directionally cloned into the NotI and EcoRI-digested py773-Pac vector. The library contained approximately 7.2 X 10^5. recombinants, with average insert sizes of 1-1.5 kb."
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DNA Sequencing and analyses performed by National Institutes of Health Intramural Sequencing Center (NISC).
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EST69742 T-cell lymphoma Homo sapiens cDNA 5' end similar to
hereditary multiple exostoses gene 2 (EXT2), mRNA sequence.
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Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /tissue_type="unfertilized egg"
/cell_type="unfertilized egg"
/dev_stage="unfertilized egg"
                                                                                                                                                                                                                                                                                                                                                                     /organism="Xenopus laevis"
                                                              PCR PRIMETS
FORWARD: TGTAAAACGACGGCCAGT
FORWARD: CAGGAAACAGCTATGACC
Plate: 0056 row: G column: 11
Seq primer: T7 primer.
Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                  /mol_type="mRNA"
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/clone="PBX0056G11"
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Seq primer: -4-00.
High quality sequence stop: 2
Location/Qualifiers
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BF822715
                                               FEATURES
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WashU Xenopus EST project, 1999
WashIngton University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Email: est@watson.wustl.edu
Library constructed by Bento Soares and M. Fatima Bonaldo
(University of Iowa). DNA Sequencing by: Washington University
Genome Sequencing Center
Clone distribution: Xenopus clones from this library are available
through the I.M.A.G.E. Consortium/LLNL at: info@tmage.llnl.gov
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1 (bases 1 to 269)

Clifton, S., Johnson, S.L., Blumberg, B., Song, J., Hillier, L., Pape, D., Martin, J., Wylie, T., Underwood, K., Theising, B., Bowers, Y., Person, B., Gibbons, M., Harvey, N., Ritter, E., Jackson, Y., McCann, R., Washu Xenopus EST project, 1999
Unpublished
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,M.R., Rosen,C.A., Haseltine,W.A., Fields,C., Fraser,C.M. and Venter,J.C.
Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence
Nature 377 (6547 Suppl), 3-174 (1995)
                                                                                                                                                                                                                                                                           Email: arkerlav@tigr.org
For clone availability, additional sequence and expression
information related to this EST, please check the TiGR Human Gene
Index (http://www.tigr.org/tdb/hgi/hgi.html)
Seq primer: MI3 Reverse.
Location/Qualifiers
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Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
                                                                                                                                                                                                                                                                                                                                                                                                               /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="ATCC (inhost):164695"
/db_xref="taxon:9606"
/db_xref="T-lymphocyte"
/colol_lype="T-lymphocyte"
/clone_lib="T-cell lymphoma"
/note="Vector: pBluescript SK-; Site_1: EcoRI; Site_2:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 268;
                                                                                                                                                                                           The Institute for Genomic Research
9712 Medical Center Drive, Rockville, MD 20850 USA
Tel: 3018699056
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
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                                                                                                                                       Other_ESTs: THC194116
Contact: Kerlavage, AR
Bioinformatics
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Best Local Similarity 100.
Matches 15; Conservative
                                                                                                                                                                                                                                                             Fax: 3018699423
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AUTHORS
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KEYWORDS
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BE132222
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/note-"Vector: pT7T3-Pac; Site_1: ECORI; Site_2: NOtI; POLYA-selected mRNA was prepared from unfertilized Xenopus lacvis eggs. The library was constructed in the vector pT7T3-Pac as described in Bonaldo, M.F., Lennon, G. and Soares, M.B. Normalization and subtraction: two approaches to facilitate gene discovery', Genome Research 6:791-806, 1996. The first strand synthesis used a NotI-4018 primer; double stranded cDNAS were ligated to ECORI adapters, digested with NotI, and directionally cloned into the NotI and ECORI-digested pT7T3-Pac vector. The library contained approximately 7.2 x 10-5 recombinants, with average insert sizes of 1-1.5 kb."
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CM3-RT0006-091200-545-c12 RT0006 Homo sapiens CDNA, mRNA sequence.
BF822715
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Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=CM3&t2=CM3-RT0006-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
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Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
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Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
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100.0%; Pred. No. 2.2e+02;
ive 0; Mismatches 0;
                                                                                                                                                                /tissue_type="unfertilized egg"
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/dev_stage="unfertilized egg"
/organism="Xenopus laevis"
                                                               /db_xref="taxon:8355"
/clone="IMAGE:3301296"
                                                                                                                                                                                                                                                                                /lab_host-"DH10B
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                                                                                                                                         /sex="female"
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/organism="Homo sapiens"
//organism="mRNA"
//db__type="mRNA"
//db__stage="Adult"
//dbo_stage="Adult"
//clone_lib="0700098"
//note="Organ: ovary; Vector: puc18; Site_l: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196
//16 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low
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357 bp mRNA linear EST 12-DEC-2002
BY400016 RIKEN full-length enriched, CRL-1722 L5178Y-R Mus musculus
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1 (bases 1 to 329)
10 sass 1 to 329)
11 (bases 1 to 329)
12 (bases 1 to 329)
13 Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carralho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H., Brunstein, A., deoliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
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Fax: +55-11-2707001
Fax: +55-11-2707001
Fax: +55-11-2707001
Fax: +55-11-2707001
Fig. +55-11-2707001
Fig. +55-11-2707001
Fig. +55-11-2707001
Fig. +55-11-270701
Fig. 
                                                                                                                                                                                               BL042474 329 bp mRNA linear EST 14-JUN-200 RC5-CT0098-220101-011-C05 OT0098 Homo sapiens CDNA, mRNA sequence. BI042474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Shotgun sequencing of the human transcriptome with ORF expressed
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100.0%; Pred. No. 2.4e+02;
iive 0; Mismatches 0;
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High quality sequence stop: 327.
Location/Qualifiers
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Laboratory of Cancer Genetics
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                                         321 TCCATGGTGCTCACT 307
1 TCCATGGTGCTCACT 15
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Best Local Similarity 100.
Matches 15; Conservative
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SOURCE
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PUBMED
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                                                                                                                                                            RESULT 7
BIO42474
LOCUS
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                                                                                                                                                                                                                                                                                                                                    /note="Organ: kidney_tumor; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Bready Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AIOUB593

EST203044 Normalized rat embryo, Bento Soares Rattus sp. cDNA clone REMAL48 3' end, mRNA sequence.
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Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lee, N.H., Glodek, A., Chandra, I., Mason, T.M., Quackenbush, J., Kerlavage, A.R. and Adams, M.D. Rat Genome Project: Generation of a Rat EST (REST) Catalog & Rat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Rattus sp."
//do_xref="Ancor" (inhost):2016778"
//do_xref="taxon:10118"
//clone="REMAZ48"
//dev_stage="embryo 8, 12, 18 dpc"
//clone_lib="Normalized rat embryo, Bento Soares"
//note="Vector: pT7739ec; Site_1: EcoRI; Site_2: NotI"

9 4 c 101 g 64 t
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100.0%; Pred. No. 2.3e+02;
iive 0; Mismatches 0;
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63 c 88 g 82 t
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Contact: Lee, NH
The Institute for Genomic Research
                                                                                                                                                                               /organism="Homo sapiens"
/mol_type="mRRA"
/mb_xref="taxon:9606"
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                                   Seq primer: puc 18 forward
High quality sequence start: 3
High quality sequence stop: 321.
Location/Qualifiers
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Fax: (301)-838-0208
Email: nhlee@tigr.org
Seq primer: M13-21.
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AI008593.1 GI:3222425
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Length 357; Indels EST 01-AUG-1997

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Bukaryotzi Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 379)

11. (bases 1 to 379)

11. (bases 1 to 270)

11. (bases 1 to 370)

12. (bases 1 to 370)

13. (bases 1 to 370)

14. (bases 1 to 370)

15. (bases 1 to 370)

16. (bases 1 to 370)

17. (bases 1 to 370)

18. (bas
                                                                                                                                                                                                               AAO85493 379 bp mRNA linear EST 01-AUG-1994 AAO4607.11 Stratagene HeLa cell 33 937216 Homo sapiens cDNA clone IMAGE:550284 5' similar to TR:E229331 E229331 PROTEIN RESPONSIBLE FOR HEREDITARY MULTIPLE EXOSTOSIS: ;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Email: estewatson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 1156 Std Error: 0.00
Seg primer: -28M13 rev2 from Amersham.
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4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 100.0%; Score 15; DB 13; Best Local Similarity 100.0%; Pred. No. 2.4e+02; Matches 15; Conservative 0; Mismatches 0;
                                                                                        /organism="Mus musculus"
/mol_type="mRNA"
/strain="DBA/2"
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/db_xref="GDB:3928802"
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/clone="IMAGE:550284"
    Location/Qualifiers
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URL:http://genome.gsc.riken.go.jp/
Aizawa.K., Akimura.T., Arakawa.T., Carninci,P., Fukuda,S., Hirozane,T., Imotani,K., Ishii,Y., Itoh,M., Kawai,J., Konno,H., Miyazahi,A., Murata,M., Nakamura,M., Nomura,K., Numazaki,R., Ohno,M., Sakai,K., Sakazume,N., Sasaki,D., Sato,K., Shibata,K., Shiraki,T., Tagami,M., Waki,K., Watahiki,A., Muramatsu,M. and Hayashizaki,Y. Direct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-nho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9216
Fax: 81-45-503-9216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Computer based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001) cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to
                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)
RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)
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Please visit our web site (http://genome.gsc.riken.go.jp) for
cDNA clone I730028H04 3', mRNA sequence.
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                                                                                                                                                                       Mus musculus (house mouse)
                                                                                   BY400016.1 GI:26629584
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JOURNAL TITLE

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DEFINITION

ACCESSION VERSION KEYWORDS SOURCE

RESULT 10 BG121876

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ORGANISM

AUTHORS TITLE JOURNAL

COMMENT

REFERENCE

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Fmail: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=&t2=RCl-OT0083-120
Seq primer: puc 18 forward
High quality sequence stop: 389.
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/clone_lib="070083"
/clone_lib="070083"
/note="0rgan: overtor: pucl8; Site_l: Smal; Site_2: Smal; Annt-library was made by cloning products derived from or Site of the control of the control of the control of the pucl site of
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 389)
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deoliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 393)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Simpson A.J.G. debatics contact of some forcer Genetics concer Ludwig Institute for Cancer Research Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                              Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
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Pred. No. 2.5e+02;
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/mol_type="mRNA"
/db_xref="taxon:9606"
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Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tel: +55-11-2704922
Fax: +55-11-2707001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match
Best Local Similarity 100..
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ACCESSION
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BI057614/c
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PUBMED
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                                                                     REFERENCE
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                                                                                                       AUTHORS
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/mol_type="mrmn" suprems
/mol_type="mrmn" suprems
/db_xref="taxon:9606"
/clone="laxon:9606"
/tissue_type="adenocarcinoma, cell line"
/lab_host="DH10B (phage-resistant)"
/clone=line="NHH_MGC_90"
/note="Organ: liver; Vector: pCMV-SPORT6; Site_1: Not1;
Site_2: Sall; Cloned unidirectionally; oligo-dT primed.
Average insert size 1.7 kb Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NIH_MGC Library."
// A 74 c 105 g 98 t
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                                                                                                                                                                                                                                                                                                                                                                                                                              BG121876 381 bp mRNA linear EST 30-JAN-2001 602351302F1 NIH_MGC_90 Homo sapiens cDNA clone IMAGE:4445904 5',
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11H-WGC http://mgc.ncl.nih.gov/.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I. M.A.G. E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov.d column: 01
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                                                                     Length 379;
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                                                                 Score 15; DB 9; I
Pred. No. 2.5e+02;
Mismatches 0;
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Pred. No. 2.5e+02;
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High quality sequence stop: 380.
Location/Qualiflers
1. 381 /organism="Homo sapiens"
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                                                              Cuery Match
Best Local Similarity 100.0%;
Matches 15, Conservative 0
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Homo sapiens
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Homo sapiens
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Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mRNA sequence.
BG121876
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FEATURES

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Gaps

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EST 15-JUN-2001 mRNA sequence.

BASE COUNT ORIGIN

DEFINITION

COCUS

RESULT 11

δ g AW886682

ACCESSION

VERSION KEYWORDS SOURCE

ORGANISM

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1 (bases 1 to 400)
Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,
Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and
(pdejong@mail.cho.org). Clones may be purchased from BACPAC Resources (http://www.chori.org/bacpac/orderingframe.htm). BAC end page: http://www.tigr.org/tdb/bac_ends/mouse/bac_end_intro.html Plate: 298 row: D column: 11 Seg primer: SP0 Clumn: 11 Class: BAC ends.
                                                                                                                                                                                                                                                                                                                                                                                                                            /cell_type="Spleen/Brain"
/clone_lib="RPCI-24"
/clone_lob-wector: pTARBAC1; Site_1: BamH1; Site_2: BamH1;
RPCI-24 Mouse BAC Library produced by Pieter de Jong. The library was cloned in the pTARBAC1 cloning vector at the BamH1 sites using Mbol partially digested male C57BL/6J
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence-tagged connectors: A sequence approach to mapping and scanning the human genome Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999) 99380589
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High Throughput Sequencing Center
University of Washington
401 Queen Anne Avenue North, Seattle, WA 98109, USA
191: (206) 616-3887
Frax: (206) 616-3887
Email: jwallace@u.washington.edu
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/db_xref="taxon:9606"
/clone="Plate=2166 Col=10 Row=H"
/sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 15; DB 28;
Pred. No. 2.5e+02;
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                                                                                                                                                                                                                                               /organism="Mus musculus"
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                                                                                                                                                                                                                                                                                                                                      /db_xref="taxon:10090"
/clone="RPCI-24-298D11"
                                                                                                                                                                                                                                                                            /moi_type="genomic DNA"
/strain="C57BL/6J"
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Location/Qualifiers
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                                                                                                                                                                               Location/Qualifiers
1. .398
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AQ296272
AQ296272.1 GI:4010340
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100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                            /sex="Male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 TCCATGGTGCTCACT 15
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Matches 15; Conservative
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Class: BAC ends
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                                                                                                                                                                                                                                                                                                  Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=MR0st2=MR0-GN0175-090301-203-h02st3=2001-03-09st4=1)
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RPCI-24-298D11.TJ RPCI-24 Mus musculus genomic clone RPCI-24-298D11
, genomic survey sequence.
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Zhao,S., Nierman,W., Malek,J., Shatsman,S., Akinret,B., Levins,M., Tseqaye,G., Geer,K., Krol,M., Shvartsbeyn,A., Gebregeorgis,E., Russell,D., de Jong,P. and Fraser,C.M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /dev_stage="Adult"
/clone_lib="GN0175"
/clone_lib="GN0175"
/clone_logan: placenta_normal; Vector: puc18; Site_l: Sma.
/site_2: Smal; A mini-library was made by cloning
products derived from ORESTES PCR (U.S. Letters Patent
application No. 196,716 - Ludwig Institute for Cancer
Research) profiles into the pUC 18 vector. Reverse
transcription of tissue mRNA and cDNA amplification were
performed under low stringency conditions."
                                                                                                                      Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Thouse by the control of the control
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                               Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
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Pred. No. 2.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Seq primer: puc 18 forward
High quality sequence start: 10
High quality sequence stop: 364.
Location/Qualifiers

1. 393
//organism="Homo sapiens"
//mol.type="mkNA"
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                                                                                                                                                                                                                                                                            Tel: +55-11-2704922
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Matches 15; Conservative
sequence tags
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Search completed: September 11, 2003, 11:30:01 Job time : 2295 secs
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                                        1 TCCATGGTGCTCACT 15
      Conservative
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      Matches
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                                                                                                                                                                                                                                                                                                                                  R32275 .432 bp mRNA linear EST 28-APR-1995 yh68e03.rl Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:134908 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mammalia; Eutheria; Pinnates; Catarrhini; Hominidae; Homo.
I (bases I to 432)
Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Hultman,M., Kucaba,T., Ed.,M., Lennon,G., Marra,M., Parsons,J., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston The WashU-Werck EST Project

The WashU-Werck EST Poject
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/clone_lib-"CIT Approved Human Genomic Sperm Library D".
/note="Organ: sperm; Vector: pBeloBAC11; BAC Clones in
E-Coli DH10B" 95 g 111 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Email: est@watson.wustl.edu
Insert Size: 1377
High quality sequence stops: 383
Source: IMAGE Consortium, LLNL
This clone is available royalty.free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 1377 Std Error: 0.00
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0
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4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
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                                                                                                                   Length 400;
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Pred. No. 2.5e+02;
Wismatches 0;
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/mol_type="mRNA"
/db_xref="GDB:540785"
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/clone="IMAGE:134908"
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Seg primer: M13RP1
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Homo sapiens
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R32275 1 GI:788118
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Contact: Wilson RK
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